### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

#### LISTING OF CLAIMS:

assigned to an output port, and

1. (original): Multi-channel network node for routing/switching data from a number of input ports to a number of output ports, wherein said data is buffered in a memory unit before being passed to a destined output port, wherein said multi-channel network node comprises said memory unit organized as a number of physical memory queues, each queue being

a switching unit for routing said data from the input port to said memory queue which is assigned to the destined output port.

- 2. (original): Multi-channel network node according to claim 1, wherein each of said memory queues comprises a number of coherent memory cells.
- 3. (original): Multi-channel network node according to claim 2, wherein the number of memory cells is resizable in order to re-distribute buffer capacity of the memory queues.
- 4. (original): Multi-channel network node according to claim 1, wherein a reassembly unit is coupled with said input ports of the network node and said switching unit and a segmentation unit are coupled with said memory unit and said output ports of the network node.

## PRELIMINARY AMENDMENT ATTORNEY DOCKET NO. Q78259

- 5. (original): Multi-channel network node according to claim 1, wherein each memory queue is assigned to a memory agent controlling the operation of the memory queue.
- 6. (original): Multi-channel network node according to claim 5, wherein said memory queues and said memory agents form said switching unit.
- 7. (currently amended): Multi-channel network node according to elaim 5 or 6claim 5, wherein said memory queues and said memory agents operate asynchronous and in parallel.
- 8. (original): Multi-channel network node according to claim 1, wherein said switching unit is a switch matrix.
- 9. (original): Multi-channel network node according to claim 1, wherein said switching unit is provided by a processor controlled by software.
- 10. (original): Multi-channel network node according to claim 1, wherein input and output interfaces are assigned to the input and output ports, respectively.
- 11. (original): Multi-channel network node according to claim 1, wherein burst buffers are provided.

### PRELIMINARY AMENDMENT ATTORNEY DOCKET NO. Q78259

- 12. (currently amended) Multi-channel network node according to any of the preceding claimsclaim 11, wherein the output ports are output ports of the memory unit and are coupled with a switching unit.
- 13. (currently amended): Multi-channel network node according to any of claims 1 to 11claim 1, wherein the output ports are the output ports of the network node.
- 14. (original): Method for routing/switching data from any input port to any of a number of output ports of a multi-channel network node, comprising the steps of:

receiving data from a data channel by a receiver unit;

queuing said data in a plurality of memory queues constituting a memory unit,

and

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switching/routing the data from the memory queues to the output port the respective memory queue is assigned to.

15. (original): Method according to claim 14, wherein each memory queue allocates coherent memory cells.

# PRELIMINARY AMENDMENT ATTORNEY DOCKET NO. Q78259

16. (currently amended): Multi-channel routing/switching system comprising a network of interactive cascaded multi-channel network nodes as claimed in any of claims 1 through 13claim 1.